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TI Method for manufacturing water purification concrete using industrial by-product
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CLASS

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AB Disclosed is a method for manufacturing water purification concrete using industrial

byproduct to reduce environmental damage due to water pollution being generated by inflowing wastewater in river and lake, stream, to reuse wastes like waste concrete, furnace slag, silica fume, **fly ash** etc. The method for manufacturing water purification concrete using industrial byproduct is characterized by forming crevice ratio of 15-30% by making water binder ratio to 25-35% using **Portland cement**, crushed stone of 5-13 mm, 13-20 mm grain size range, waste concrete regenerated aggregate, natural aggregate; mixing **fly ash** of 5-20%, silica dust of 5-20%, furnace slag of 10-40%, fine powder and Fe type **zeolite** of 5-30% as blending material with cement weight ratio; mixing high efficiency AE decreasing matter of 1-3% as blending material with cement weight ratio; mixing reinforcement fiber like mesh type polypropylene chopped fiber and pitch derived carbon fiber of 0.5-4.0% with cement capacity ratio; using SBR (styrene butadiene rubber) latex of 5-20% with cement weight ratio to improve adhesive power and internal force efficiency.

ST wastewater treatment industrial waste